

Geological Development of Indiana and the Movement of Peoples Across the State

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Purpose:

In order to better understand the geological development of Indiana and the movement of peoples across the state, students will interact with a web site published by the United States Geological Survey.

Grade: 4

Geography Standards addressed:

- #1) How to use maps and other geographic representations, tools, and technologies to acquire, process and report information from a spatial perspective.
- #2) How to use mental maps to organize information about people, places and environments in a spatial context.
- #3) How to analyze the spatial organization of people, places and environments on Earth's surface.
- #4) The physical and human characteristics of places.
- #7) The physical processes that shape the patterns of Earth's surface.
- #16) The changes that occur in the meaning, use, distribution and importance of resources.

Materials:

- -Access to internet
- -Map of Indiana
- -Chart/graph paper -pencil/paper
- -Markers -other needs of student groups

Objectives:

Upon completion of this activity, students will be able to :

- 1. locate earthquake zones in Indiana,
- 2. locate energy resources in Indiana, and
- 3. identify minerals found in Indiana.

Background:

Students will be divided into teams working on reports about Indiana.

Procedures:

- 1. Students will access the website <http://geology.er.usgs.gov/states/midwest.html>
- 2. Each group will decide which of the map links they should access.

- 3. Students will access website to obtain information.
- 4. Students will interpret the information given.
- 5. Students will use wall map of Indiana to show location of geological information.
- 6. Students will interpret information and present to class how the geological information has influenced "Hoosier" culture.

Evaluation:

Students will acknowledge the factors of geological factors and human movement.

Adaptations/Extensions:

- 1. Math: How is the economy affected by natural resources?
- 2. Science: What are the characteristics needed to create earthquakes? minerals? natural resources?
- 3. Language: Students can write reports on their findings.
- 4. Fine Arts: Students can draw resource maps.

Web Sites Accessed:

<http://geology.er.usgs.gov/states/midwest.html>